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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER *634-5131*

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED OCTOBER 3, 1964

EPIDEMIOLOGIC NOTES

ENCEPHALITIS

A total of 71 cases of primary encephalitis was reported for the week ended October 3. This brings to 2,426 the cumulative total reported in the United States in 1964. This total includes cases of encephalitis of unknown etiology and cases of arthropod-borne encephalitis.

Although the outbreaks previously reported in Texas, Kentucky, Illinois and Colorado have ended or are on the wane, a new outbreak believed to be St. Louis Encephalitis has been noted in New Jersey.

A total of 64 cases including 5 deaths of encephalitis-like illness has been reported from New Jersey. The cases are geographically clustered along the border of Camden and Burlington Counties near Philadelphia. The initial cases developed in mid-August; the outbreak appears to have reached its peak in mid to late September. The majority of the cases have occurred among females over the age of 40. Preliminary laboratory results indicate that at least some of the cases are due to St. Louis Encephalitis virus. Further studies including mosquito collections and ecologic studies are in progress.

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	40th Week Ended		Median	Cumulative, First 40 Weeks		
	October 3, 1964	October 5, 1963	1959 - 1963	1964	1963	Median 1959 - 1963
Aseptic meningitis	51	58	---	1,562	1,386	---
Brucellosis	8	8	9	327	286	467
Diphtheria	7	8	16	194	194	421
Encephalitis, primary infectious	71	27	---	2,426	1,240	---
Encephalitis, post-infectious	3		---	701		---
Hepatitis, infectious including serum hepatitis	737	884	884	29,744	33,519	33,519
Measles	718	805	930	436,144	360,887	389,283
Meningococcal infections	37	38	38	2,092	1,871	1,688
Poliomyelitis, Total	2	20	69	91	323	992
Paralytic	2	18	48	73	276	642
Nonparalytic	-	2	---	11	32	---
Unspecified	-	-	---	7	15	---
Streptococcal Sore Throat and Scarlet fever	5,537	4,652	---	310,068	263,914	---
Tetanus	4	6	---	214	204	---
Tularemia	8	4	---	261	222	---
Typhoid fever	12	19	15	328	411	613
Rabies in Animals	104	62	60	3,584	2,955	2,955

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Psittacosis:	35
Botulism:	11	Rabies in Man:	1
Leptospirosis: NC-1, Ore-1	36	Smallpox:	-
Malaria: NJ-1, Ill-1, Penn-1, Ore-1	75	Typhus-	
Plague:	-	Murine:	21
		Rky Mt. Spotted: NC-2, ND-1	206

Figure I

RUBELLA BY MONTH OF REPORT FOR SELECTED STATES

SEPT. 1963-AUG. 1964 COMPARED TO AVERAGE MONTHLY REPORT, 1955-1963

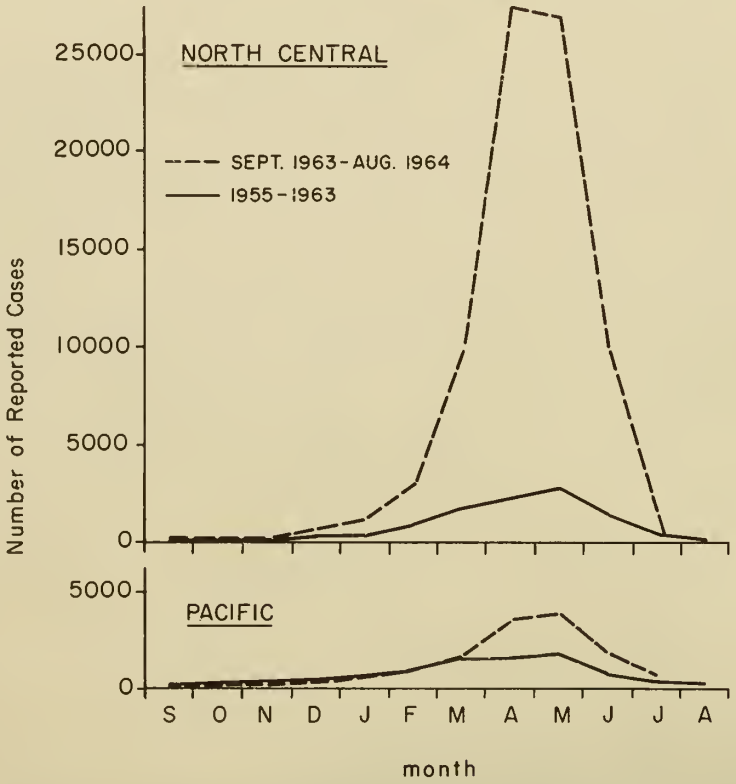


Figure I (cont.)

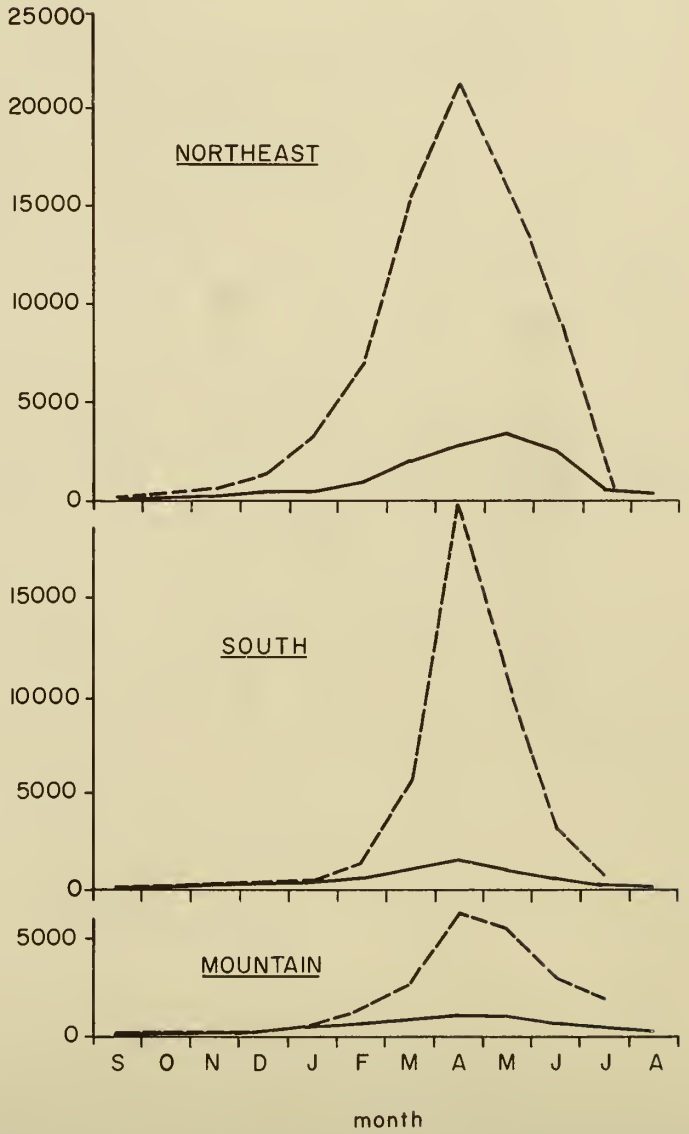
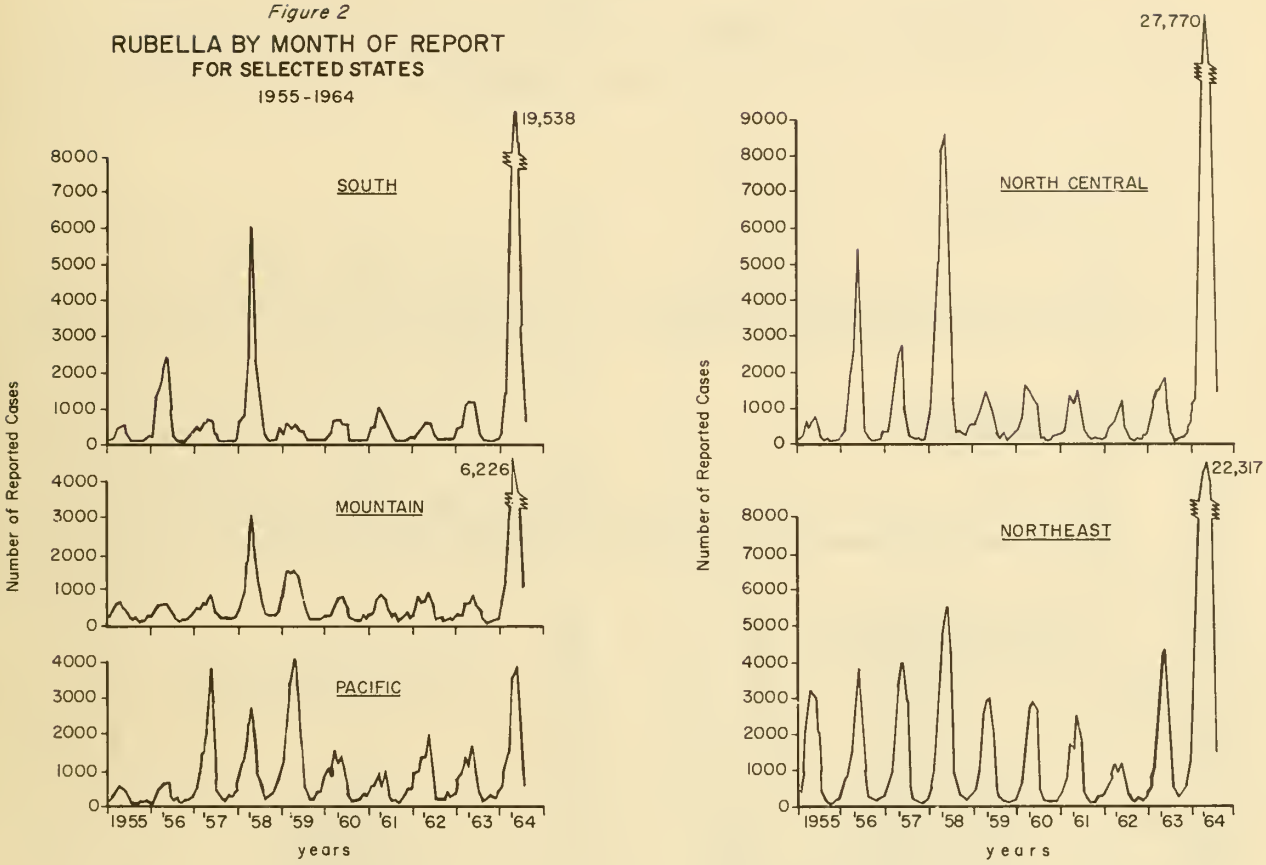


Figure 2

RUBELLA BY MONTH OF REPORT
FOR SELECTED STATES
1955-1964



RUBELLA SURVEILLANCE SUMMARY

During the past winter and spring, the United States experienced a major outbreak of rubella. (See MMWR Vol. 13, No. 12). Following its development in the eastern United States, the epidemic spread to the Mountain and Pacific regions in late spring. It appeared to be one of the largest rubella epidemics in the United States in the past 2 decades.

Rubella is not a nationally reportable disease. However, over 20 States have reported it on a monthly basis since 1955 and many have kept records as far back as 1920. These form the basis of this report. Although only a small fraction of the actual number of cases are reported by local physicians, the broad trends of disease occurrence are discernible.

The widespread occurrence of rubella this spring resulted in an opportunity to study the epidemiology of this disease, and surveys were instituted for this purpose. A preliminary report on surveys conducted in Doraville, Georgia and Kingston, Tennessee is presented in the section on Epidemiological Reports.

Figure 1 describes the monthly incidence of rubella by geographic regions (States reporting are shaded on the map). The incidence during the past winter season far exceeds the average recorded in these States during the past 9 years. The increased incidence is most evident in the Northeastern, North Central and Southern States, less marked in the Mountain States and least prominent on the Pacific Coast. However, all States which request the reporting of rubella cases recorded an increased incidence this year compared to 1963. In the Northeastern States, an increasing number of cases was reported beginning in January; the peak was reached in April. In the North Central and Southern States, the outbreak appeared to develop somewhat later but reached a peak at approximately the same time as it did in the Northeast.

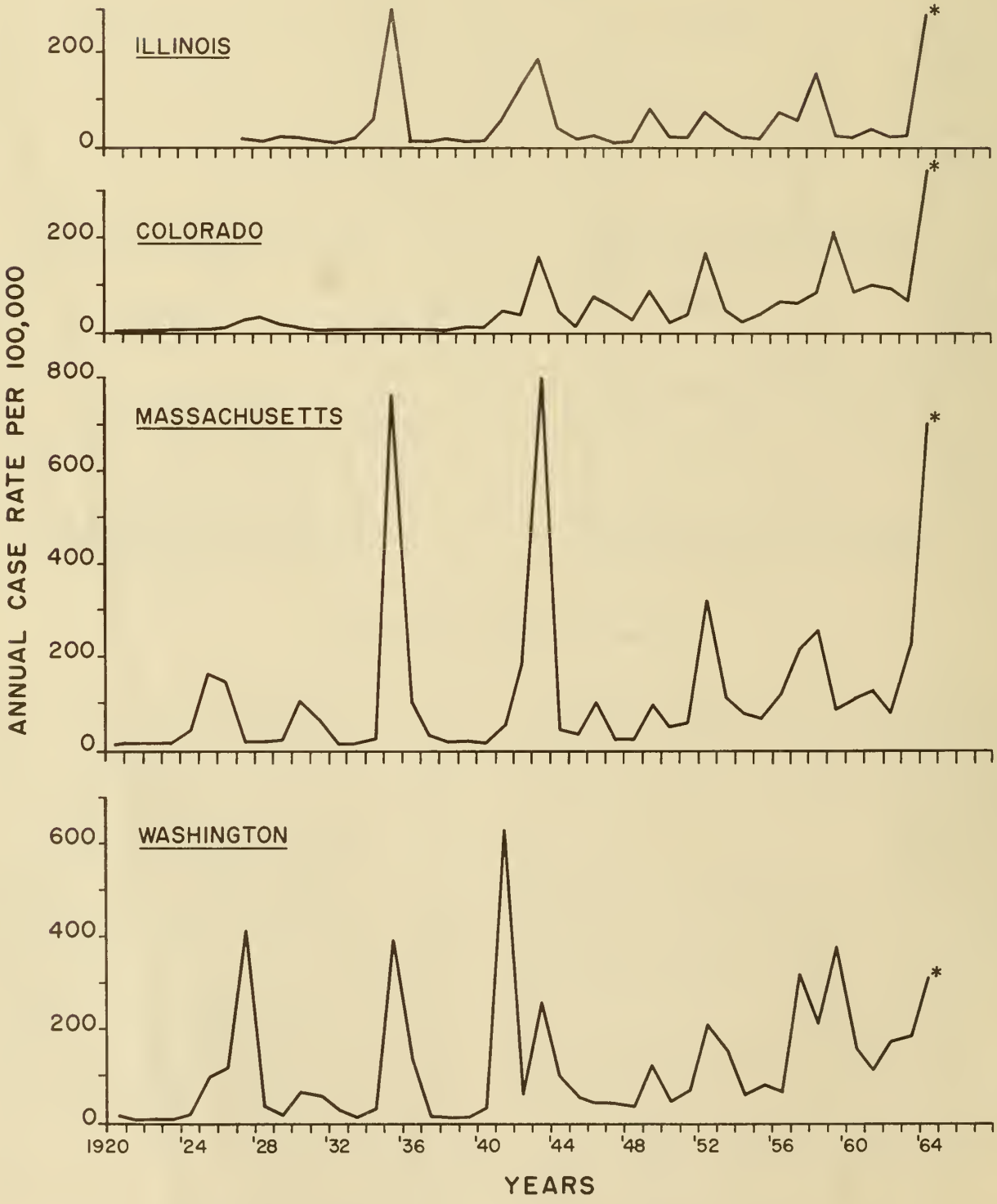
Figure 2 shows the cases of rubella reported monthly for each region for the past 10 years. In the Northeastern, North Central and Southern States, the number of cases during the peak month exceeds by 2 to 3 times the maximum previously recorded during the past decade. The last significant outbreak occurred in 1958 in most areas and in 1959 on the Pacific Coast.

Longer term trends in rubella occurrence are shown in Figure 3 for selected States. In general, epidemics have occurred more or less synchronously in each of the States at intervals of approximately 3 to 8 years.

Figure 3

REPORTED RUBELLA FOR SELECTED STATES

1920 – 1964



*Through July 1964

EPIDEMIOLOGICAL REPORTS

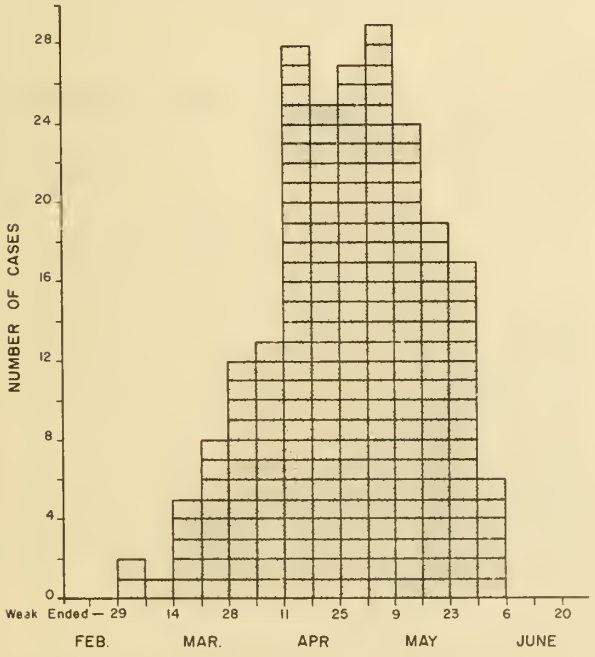
Special epidemiological studies conducted in local communities in Georgia and Tennessee provide a sharper view of the pattern of the disease as it affected local communities:

Doraville, Georgia

In the spring of 1964, the DeKalb County Health Department and the CDC collaborated in the study of the epidemic among elementary school children and their families in the suburban Atlanta community of Doraville. The 210 families (1014 persons) with children in this school were contacted monthly to determine the frequency of rubella-like illnesses in this population.

Cases of rubella in these families are shown by week in the histogram below. The first recorded cases occurred during the first week in March, gradually increased to a peak in the period April 11 – May 9, returning to baseline levels by June 6.

Figure 4
RUBELLA BY WEEK OF ONSET
DORAVILLE, GEORGIA
JANUARY–JUNE 1964



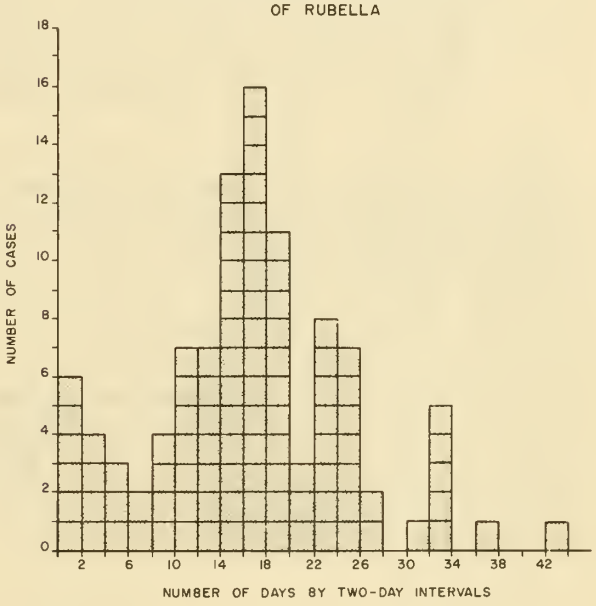
Attack rates by age and sex are shown (table). The attack rate was highest in the 5-9 year age group in which approximately 50 percent of the children contracted rubella. Older school-age children experienced lower attack rates. The attack rate for pre-school children was 37 percent; the attack rate for adults was 2.6 percent. Between the sexes the difference in attack rates was minimal.

RUBELLA ATTACK RATES BY AGE GROUP AND SEX
DORAVILLE, GEORGIA

	TOTAL			MALES			FEMALES		
Age	Total Pop.	Cases	Attack Rate Per 100	Total Pop.	Cases	Attack Rate Per 100	Total Pop.	Cases	Attack Rate Per 100
0-4	87	32	36.8	48	19	39.6	39	13	33.3
5-9	206	104	50.5	109	56	51.4	97	48	49.5
10-14	208	59	28.4	104	23	22.1	104	36	34.6
15-19	78	9	11.5	48	6	12.5	30	3	10.0
20+	427	11	2.6	208	3	1.4	219	8	3.7
Unknown	8	–	–	5	–	–	3	–	–
TOTAL	1014	215	21.2	522	107	20.5	492	108	22.0

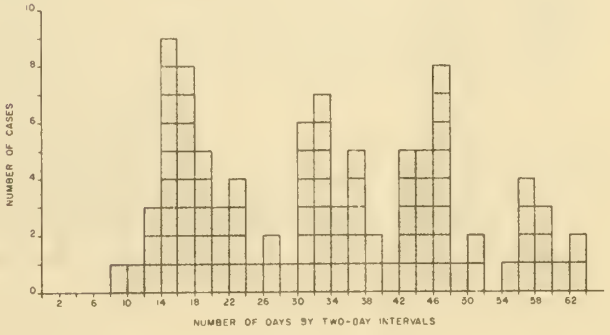
Intervals between primary and secondary cases in households is shown in the histogram below. Secondary cases occurred predominantly between the 12th and 28th day after the initial illness with a mean of 19.5 days.

Figure 5
INTERVAL FROM FIRST FAMILY CASE
TO SUBSEQUENT FAMILY CASES
OF RUBELLA



The pattern of spread of the illness within classrooms is depicted in the histogram. Following onset of the initial case in the classroom, an interval of 8 days elapsed before a secondary wave of cases commenced. Succeeding waves of cases occurred at approximately 2-week intervals.

Figure 6
INTERVAL FROM FIRST CLASSROOM CASE TO SUBSEQUENT CLASSROOM CASES
OF RUBELLA



Kingston, Tennessee

Comparable data were obtained in a telephone survey conducted in Kingston, Tennessee in April, by the Tennessee Department of Public Health and the Roane County Health Department. The table below shows the attack rates in the population of 900 surveyed. The attack rate was highest in the 5-9 age group (70.9%) and lowest among adults. The overall attack rate was 25.8 per 100.

RUBELLA ATTACK RATES BY AGE GROUP AND SEX, KINGSTON, TENNESSEE

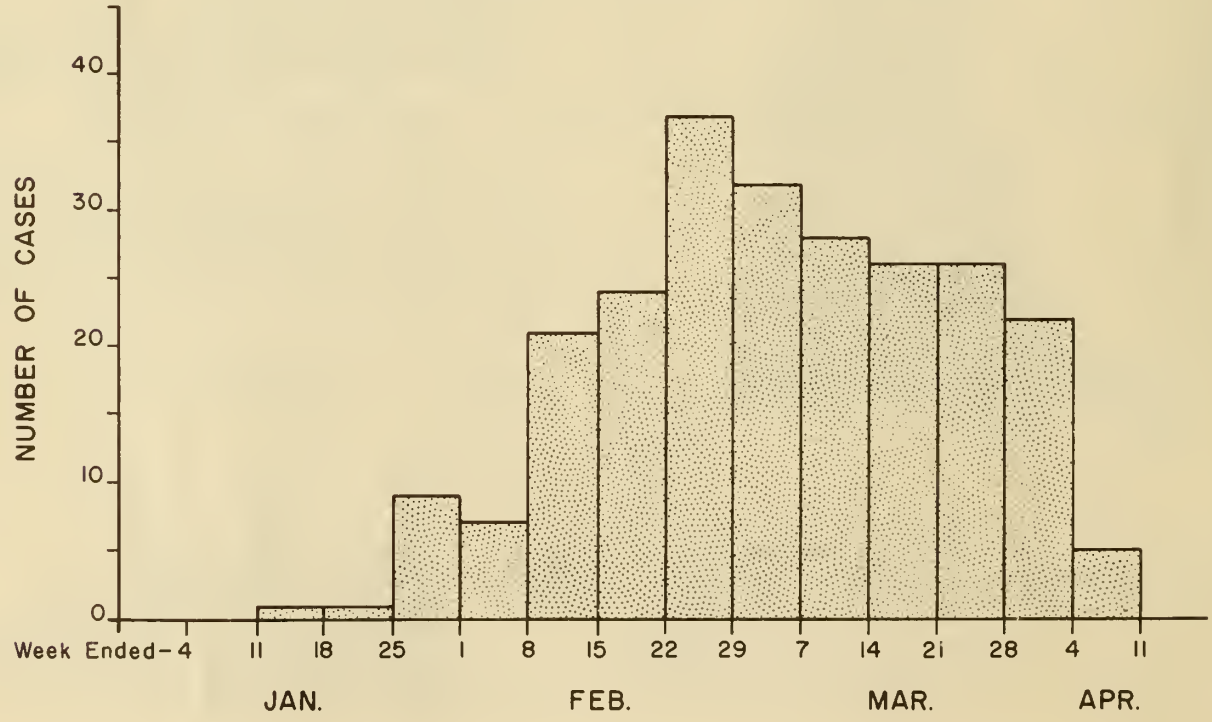
	TOTAL			MALES			FEMALES		
Age	Total Pop.	Coses	Attock Rote per 100	Totol Pop.	Coses	Attock Rote per 100	Totol Pop.	Coses	Attock Rate per100
0- 4	69	30	43.5	36	15	41.7	33	15	45.5
5- 9	127	90	70.9	72	53	73.6	55	37	67.3
10-14	127	68	53.5	71	38	53.5	56	30	53.6
15-19	90	25	27.8	44	14	31.8	46	11	23.9
20+	487	19	3.9	239	4	1.7	248	15	6.0
TOTAL	900	232	25.8	462	124	26.8	438	108	24.7

In those families with cases, 60 per cent of children age 0-4 years and 8.5 per cent of persons 20 years and over developed the illness.

The histogram below depicts the epidemic curve of this outbreak. The peak incidence occurred approximately 6 weeks after the first case. The epidemic lasted 13 weeks and was waning by early April.

Figure 7

CASES OF RUBELLA BY WEEK OF ONSET
TELEPHONE SURVEY, KINGSTON, TENNESSEE
JANUARY - APRIL 1964



Joint involvement is usually considered an uncommon complication of rubella. However, in the epidemic in Kingston, joint symptoms were reported suprisingly frequently. Some degree of joint involvement occurred in 15 per cent of the cases. There was a slightly higher incidence in females age 15 years and over.

FREQUENCY OF JOINT SYMPTOMS AMONG CASES OF RUBELLA, KINGSTON, TENNESSEE

	MALES			FEMALES		
Age	No. of Cases	No. with joint Symptoms	Percent	No. of Cases	No. with joint Symptoms	Percent
0-4	15	2	13.3	15	0	0.0
5-9	53	5	9.4	37	4	10.8
10-14	38	5	13.2	30	5	16.7
15-19	14	2	14.3	11	4	36.4
20+	4	1	25.0	15	7	46.7
TOTAL	124	15	12.1	108	20	18.5

EPIDEMIOLOGIC NOTES (Continued)

INFLUENZA

Cases of influenza-like illness have been reported with increasing frequency over the past six weeks from the Commonwealth of Puerto Rico. Initially confined to the San Juan area, the outbreak has now spread to most sectors of the island. Clinically, the illness is typified by a sudden onset of high fever, headache, malaise and mild myalgia and lasts an average of 4-7 days.

The unusual occurrence of influenza-like illness at this time of the year prompted efforts to attempt isolation of the involved agent. Preliminary study of virus isolations from throat washings taken from acute cases are indicative of influenza, probably of the A_2 sub-type.

INTERNATIONAL NOTES – QUARANTINE MEASURES

Immunization Information for International Travel 1963-64 edition Public Health Service Publication No. 384

SECTION 5

AMERICA

Dominica, page 38, Insert:

Delete previous information under smallpox and insert: Smallpox vaccination is required for all arrivals. All other information remains the same.

Dominican Republic, page 38, Insert:

Cholera vaccination is required for all arrivals from infected areas.

Egypt, U. A. R., page 25

Insert:

Smallpox vaccination is required for all arrivals from infected areas.

Cholera vaccination is required for all arrivals from infected areas, and from Burma, China (Taiwan), China (mainland), East Pakistan, Hong Kong, India, Indonesia, Korea (Republic), Macao, Malaya, Philippines, Sabah, Sarawak, Thailand.

Yellow Fever – The following countries and territories are regarded as endemic zones or infected areas: Angola, Bechuanaland, Burundi, Cameroon, Central African Rep., Chad, Congo (Brazzaville), Congo, (Leopoldville), Dahomey, Ethiopia, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mali, Mauritania, Niger, Nigeria, Nyasaland, Northern Rhodesia, Portuguese Guinea, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Somalia, Spanish Guinea, Sudan (south of 15° N latitude), Tanganyika, Togo, Uganda, Upper Volta, Zanzibar. America: Bolivia, Brazil, British Honduras, British Guiana, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Honduras, Nicaragua, Panama, Panama Canal Zone, Peru, Surinam, Trinidad, Venezuela.

Guinea, page 27

Insert the information under **REQUIRED:**

Yellow Fever – Except travelers from noninfected areas staying less than two weeks.

ASIA

Aden Colony, page 43, Insert:

Yellow fever vaccination is required for all arrivals from infected areas, 1 year of age and over.

India, page 47

In the note concerning yellow fever under Africa add Uganda. Delete Southern Rhodesia. Delete Nyasaland and insert Malawi. All other information remains the same.

Laos, page 49, Insert:

Under smallpox add, "and for travelers leaving the country."

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 3, 1964 AND OCTOBER 5, 1963 (40TH WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	51	58	71	3	2	20	91	323	2	18	73	276
NEW ENGLAND..... ...	1	-	-	-	-	-	2	5	-	-	2	5
Maine.....	-	-	-	-	-	-	-	2	-	-	-	2
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	1	-	-	-	1
Massachusetts.....	-	-	-	-	-	-	-	2	-	-	-	2
Rhode Island.....	1	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	2	-	-	-	2	-
MIDDLE ATLANTIC.....	6	5	15	-	-	3	13	102	-	3	12	81
New York City.....	-	-	-	-	-	-	1	-	-	-	1	-
New York, Up-State.	1	5	1	-	-	-	10	8	-	-	9	5
New Jersey.....	5	-	13	-	-	-	2	1	-	-	2	1
Pennsylvania.....	-	-	1	-	-	3	-	93	-	3	-	75
EAST NORTH CENTRAL...	6	16	18	1	-	6	18	52	-	6	13	42
Ohio.....	2	5	6	-	-	-	2	8	-	-	2	4
Indiana.....	-	1	1	-	-	2	6	4	-	2	3	3
Illinois.....	2	2	11	1	-	1	5	15	-	1	5	14
Michigan.....	2	8	-	-	-	3	3	19	-	3	2	19
Wisconsin.....	-	-	-	-	-	-	2	6	-	-	1	2
WEST NORTH CENTRAL...	1	1	10	-	1	-	9	6	1	-	7	5
Minnesota.....	1	1	1	-	-	-	3	4	-	-	2	4
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	5	-	1	-	4	-	1	-	3	-
North Dakota.....	-	-	-	-	-	-	1	1	-	-	1	-
South Dakota.....	-	-	1	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	1	-	-	-	1
Kansas.....	-	-	3	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	5	5	7	-	-	5	24	46	-	4	19	41
Delaware.....	-	-	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	1	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	4	-	3	-	-	1	-	8	-	-	-	5
West Virginia.....	-	1	-	-	-	1	1	3	-	1	1	3
North Carolina.....	-	-	2	-	-	-	10	3	-	-	6	3
South Carolina.....	-	-	-	-	-	-	2	6	-	-	2	5
Georgia.....	-	-	1	-	-	3	1	17	-	3	1	16
Florida.....	1	4	-	-	-	-	9	8	-	-	8	8
EAST SOUTH CENTRAL...	3	8	1	-	-	3	6	64	-	3	5	59
Kentucky.....	-	8	-	-	-	-	-	-	-	-	-	-
Tennessee.....	3	-	1	-	-	-	3	10	-	-	2	9
Alabama.....	-	-	-	-	-	3	2	47	-	3	2	43
Mississippi.....	-	-	-	-	-	-	1	7	-	-	1	7
WEST SOUTH CENTRAL...	3	1	-	-	1	-	9	23	1	-	8	22
Arkansas.....	-	1	-	-	-	-	-	4	-	-	-	3
Louisiana.....	1	-	-	-	-	-	-	13	-	-	-	13
Oklahoma.....	-	-	-	-	-	-	2	-	-	-	2	-
Texas.....	2	-	-	-	1	-	7	6	1	-	6	6
MOUNTAIN.....	3	2	4	-	-	2	7	5	-	2	4	4
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	1	-	-	-	2	-	-	-	2	-
Colorado.....	3	1	2	-	-	-	1	1	-	-	1	1
New Mexico.....	-	-	-	-	-	-	3	1	-	-	-	-
Arizona.....	-	1	1	-	-	2	-	2	-	2	-	2
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	23	20	16	2	-	1	3	20	-	-	3	17
Washington.....	-	3	-	-	-	-	-	2	-	-	-	2
Oregon.....	-	1	1	-	-	-	1	2	-	-	1	1
California.....	23	16	15	2	-	1	2	16	-	-	2	14
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	5	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 3, 1964 AND OCTOBER 5, 1963 (40TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	8	327	7	194	737	325	347	65	29,763	33,519	12	328
NEW ENGLAND.....	-	2	-	45	44	22	20	2	2,734	3,654	-	14
Maine.....	-	-	-	39	15	9	6	-	868	1,647	-	-
New Hampshire.....	-	-	-	-	1	-	1	-	212	397	-	-
Vermont.....	-	-	-	-	7	3	3	1	342	75	-	-
Massachusetts.....	-	2	-	5	14	7	6	1	599	987	-	6
Rhode Island.....	-	-	-	1	4	-	4	-	153	86	-	6
Connecticut.....	-	-	-	-	3	3	-	-	560	462	-	2
MIDDLE ATLANTIC.....	-	5	-	7	150	63	87	-	6,603	6,680	5	55
New York City.....	-	-	-	3	17	4	13	-	1,011	1,037	4	27
New York, Up-State.	-	2	-	-	60	18	42	-	2,872	2,901	-	10
New Jersey.....	-	-	-	2	22	8	14	-	1,128	978	-	1
Pennsylvania.....	-	3	-	2	51	33	18	-	1,592	1,764	1	17
EAST NORTH CENTRAL...	3	45	-	8	112	55	46	11	4,666	5,408	1	73
Ohio.....	-	3	-	-	28	14	11	3	1,234	1,499	-	19
Indiana.....	-	1	-	1	16	8	8	-	408	484	-	21
Illinois.....	-	26	-	6	30	11	15	4	859	1,153	1	21
Michigan.....	-	6	-	1	29	17	12	-	1,833	2,029	-	9
Wisconsin.....	3	9	-	-	9	5	-	4	332	243	-	3
WEST NORTH CENTRAL...	2	137	1	27	39	20	15	4	1,598	1,476	-	27
Minnesota.....	2	9	-	11	11	7	2	2	183	223	-	3
Iowa.....	-	85	-	-	9	3	4	2	246	270	-	4
Missouri.....	-	10	-	1	9	6	3	-	394	526	-	10
North Dakota.....	-	2	-	2	-	-	-	-	58	61	-	2
South Dakota.....	-	16	1	2	6	2	4	-	126	104	-	1
Nebraska.....	-	13	-	4	-	-	-	-	42	95	-	3
Kansas.....	-	2	-	7	4	2	2	-	549	197	-	4
SOUTH ATLANTIC.....	-	33	4	45	70	30	37	3	2,804	3,412	-	66
Delaware.....	-	-	-	-	2	1	1	-	55	63	-	-
Maryland.....	-	-	-	-	9	6	3	-	524	422	-	6
Dist. of Columbia..	-	-	-	-	1	-	1	-	51	95	-	-
Virginia.....	-	15	-	-	8	3	3	2	439	696	-	11
West Virginia.....	-	-	-	-	5	3	2	-	407	518	-	-
North Carolina.....	-	3	-	-	11	5	6	-	470	850	-	18
South Carolina.....	-	-	-	7	3	-	2	1	104	143	-	11
Georgia.....	-	12	-	21	5	2	3	-	85	148	-	5
Florida.....	-	3	4	17	26	10	16	-	669	477	-	15
EAST SOUTH CENTRAL...	-	17	-	15	43	23	20	-	2,058	3,160	-	31
Kentucky.....	-	6	-	-	7	3	4	-	745	901	-	8
Tennessee.....	-	5	-	2	15	11	4	-	719	1,220	-	15
Alabama.....	-	4	-	8	18	9	9	-	388	504	-	6
Mississippi.....	-	2	-	5	3	-	3	-	206	535	-	2
WEST SOUTH CENTRAL...	-	37	2	30	78	43	32	3	2,332	2,361	-	25
Arkansas.....	-	6	-	-	3	2	1	-	220	263	-	13
Louisiana.....	-	4	2	8	30	16	14	-	573	481	-	4
Oklahoma.....	-	7	-	-	1	-	1	-	110	105	-	4
Texas.....	-	20	-	22	44	25	16	3	1,429	1,512	-	4
MOUNTAIN.....	1	30	-	3	52	5	5	42	1,785	2,152	1	9
Montana.....	-	-	-	-	6	3	2	1	158	282	-	-
Idaho.....	-	-	-	-	19	-	-	19	252	351	-	-
Wyoming.....	-	-	-	-	2	1	1	-	57	25	-	1
Colorado.....	-	-	-	-	12	-	-	12	476	447	-	-
New Mexico.....	-	1	-	1	1	1	-	-	250	254	-	2
Arizona.....	-	2	-	2	10	-	-	10	395	495	1	6
Utah.....	1	26	-	-	2	-	2	-	146	281	-	-
Nevada.....	-	1	-	-	-	-	-	-	51	17	-	-
PACIFIC.....	2	21	-	14	149	64	85	-	5,183	5,216	5	28
Washington.....	-	-	-	13	5	1	4	-	538	910	-	2
Oregon.....	-	2	-	-	10	1	9	-	553	636	-	-
California.....	2	19	-	1	123	55	68	-	3,807	3,497	5	26
Alaska.....	-	-	-	-	6	6	-	-	181	139	-	-
Hawaii.....	-	-	-	-	5	1	4	-	104	34	-	-
Puerto Rico	-	-	-	10	22	17	5	-	765	672	-	11

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 3, 1964 AND OCTOBER 5, 1963 (40TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	718	37	2,092	1,871	5,537	4,652	4	214	8	261	104	3,584
NEW ENGLAND.....	72	2	61	116	368	266	-	9	-	1	-	32
Maine.....	13	-	5	17	77	14	-	-	-	-	-	27
New Hampshire.....	-	-	1	4	5	1	-	-	-	-	-	2
Vermont.....	1	1	4	4	1	5	-	-	-	-	-	2
Massachusetts.....	44	-	24	54	16	69	-	9	-	1	-	1
Rhode Island.....	3	1	10	11	19	15	-	-	-	-	-	-
Connecticut.....	11	-	17	26	250	162	-	-	-	-	-	-
MIDDLE ATLANTIC.....	46	4	272	254	141	177	-	19	-	-	4	106
New York City.....	10	1	36	39	5	12	-	-	-	-	-	-
New York, Up-State.	16	-	75	81	110	123	-	7	-	-	2	100
New Jersey.....	5	-	93	36	12	28	-	6	-	-	-	-
Pennsylvania.....	15	3	68	98	14	14	-	6	-	-	2	6
EAST NORTH CENTRAL...	116	4	294	286	469	316	1	39	-	20	11	515
Ohio.....	15	1	75	77	47	26	1	11	-	1	2	265
Indiana.....	30	1	47	41	145	72	-	9	-	2	-	22
Illinois.....	12	2	75	55	52	42	-	12	-	13	2	97
Michigan.....	20	-	67	85	155	122	-	6	-	1	5	52
Wisconsin.....	39	-	30	28	70	54	-	1	-	3	2	79
WEST NORTH CENTRAL...	29	2	128	117	199	116	-	11	-	52	30	1,105
Minnesota.....	1	-	29	23	9	6	-	1	-	2	12	338
Iowa.....	5	1	7	7	50	26	-	5	-	1	10	397
Missouri.....	-	-	57	34	18	25	-	3	-	26	5	171
North Dakota.....	20	1	18	13	110	54	-	-	-	-	-	55
South Dakota.....	3	-	3	5	7	3	-	1	-	15	1	80
Nebraska.....	-	-	6	24	-	-	-	-	-	-	1	34
Kansas.....	NN	-	8	11	5	2	-	1	-	8	1	30
SOUTH ATLANTIC.....	132	9	422	346	827	545	-	54	2	25	9	493
Delaware.....	-	-	6	4	3	1	-	-	-	-	-	-
Maryland.....	-	1	31	50	27	7	-	3	-	-	-	1
Dist. of Columbia..	-	-	13	6	2	1	-	1	-	1	-	-
Virginia.....	4	3	50	76	128	149	-	7	1	6	5	258
West Virginia.....	67	1	33	18	246	219	-	1	-	-	-	30
North Carolina.....	-	3	72	62	16	7	-	13	-	6	-	5
South Carolina.....	-	-	50	18	5	33	-	4	-	-	-	2
Georgia.....	3	-	62	28	19	7	-	4	-	11	2	108
Florida.....	58	1	105	84	381	121	-	21	1	1	2	89
EAST SOUTH CENTRAL...	33	2	172	136	1,119	766	1	29	1	30	34	460
Kentucky.....	1	1	56	30	27	65	-	8	-	2	-	55
Tennessee.....	26	-	55	61	998	650	1	11	1	20	3	340
Alabama.....	6	1	37	23	56	26	-	6	-	3	-	17
Mississippi.....	-	-	24	22	38	25	-	4	-	5	31	48
WEST SOUTH CENTRAL...	56	3	188	170	505	579	1	25	5	87	7	496
Arkansas.....	-	1	23	11	9	4	-	7	4	51	1	122
Louisiana.....	10	1	119	70	4	6	1	4	1	5	1	46
Oklahoma.....	1	1	10	31	8	9	-	-	-	19	-	83
Texas.....	45	-	36	58	484	560	-	14	-	12	5	245
MOUNTAIN.....	87	2	73	60	1,064	1,026	-	5	-	43	2	124
Montana.....	49	-	-	3	24	24	-	-	-	18	1	1
Idaho.....	5	-	3	6	37	45	-	-	-	-	-	-
Wyoming.....	-	-	5	4	3	10	-	2	-	8	-	-
Colorado.....	4	-	12	16	536	407	-	-	-	-	-	8
New Mexico.....	1	-	29	4	243	277	-	1	-	-	-	48
Arizona.....	9	1	7	10	81	188	-	1	-	-	1	54
Utah.....	17	-	7	14	140	72	-	1	-	17	-	2
Nevada.....	2	1	10	3	-	3	-	-	-	-	-	11
PACIFIC.....	147	9	482	386	845	861	1	23	-	3	7	253
Washington.....	28	2	33	30	244	295	-	2	-	-	-	-
Oregon.....	20	-	21	28	12	11	-	-	-	1	1	10
California.....	58	7	409	308	530	384	1	20	-	2	6	243
Alaska.....	10	-	7	12	23	24	-	-	-	-	-	-
Hawaii.....	31	-	12	8	36	147	-	1	-	-	-	-
Puerto Rico	163	-	30	7	7	4	-	59	-	-	-	24

Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	9/12	9/19	9/26	10/3
NEW ENGLAND:				
Boston, Mass.	131	132	116	142
Bridgeport, Conn.	18	17	26	22
Cambridge, Mass.	10	17	21	17
Fall River, Mass.	16	11	15	13
Hartford, Conn.	31	34	30	17
Lowell, Mass.	14	9	8	15
Lynn, Mass.	11	12	12	13
New Bedford, Mass.	10	23	18	11
New Haven, Conn.	31	25	22	26
Providence, R.I.	38	43	47	41
Somerville, Mass.	9	9	5	12
Springfield, Mass.	34	15	27	30
Waterbury, Conn.	16	21	18	12
Worcester, Mass.	38	41	32	39
MIDDLE ATLANTIC:				
Albany, N.Y.	40	25	18	30
Allentown, Pa.	23	15	20	22
Buffalo, N.Y.	74	73	84	79
Camden, N.J.	19	17	16	23
Elizabeth, N.J.	15	12	15	13
Erie, Pa.	18	24	18	27
Jersey City, N.J.	45	35	29	39
Newark, N.J.	45	48	48	34
New York City, N.Y.	847	857	903	837
Paterson, N.J.	24	18	21	27
Philadelphia, Pa.	212	225	288	238
Pittsburgh, Pa.	95	123	105	94
Reading, Pa.	33	26	29	31
Rochester, N.Y.	51	55	77	62
Schenectady, N.Y.	16	15	12	14
Scranton, Pa.	32	19	20	17
Syracuse, N.Y.	33	48	28	33
Trenton, N.J.	28	25	20	30
Utica, N.Y.	19	15	18	26
Yonkers, N.Y.	16	28	11	17
EAST NORTH CENTRAL:				
Akron, Ohio.	31	37	28	27
Canton, Ohio.	21	22	23	15
Chicago, Ill.	372	348	377	355
Cincinnati, Ohio.	94	119	104	80
Cleveland, Ohio.	88	107	106	111
Columbus, Ohio.	58	51	66	44
Dayton, Ohio.	40	32	52	43
Detroit, Mich.	183	202	160	196
Evansville, Ind.	12	22	33	31
Flint, Mich.	18	11	19	24
Fort Wayne, Ind.	13	24	24	21
Gary, Ind.	13	10	28	6
Grand Rapids, Mich.	33	36	19	35
Indianapolis, Ind.	80	98	78	66
Madison, Wis.	41	16	17	8
Milwaukee, Wis.	65	82	58	64
Peoria, Ill.	18	12	11	14
Rockford, Ill.	17	20	12	12
South Bend, Ind.	9	25	27	24
Toledo, Ohio.	51	67	54	50
Youngstown, Ohio.	31	39	31	26
WEST NORTH CENTRAL:				
Des Moines, Iowa.	33	42	39	43
Duluth, Minn.	19	8	25	6
Kansas City, Kans.	10	16	14	14
Kansas City, Mo.	73	70	81	66
Lincoln, Nebr.	17	21	15	9
Minneapolis, Minn.	87	72	76	60
Omaha, Nebr.	38	35	32	35
St. Louis, Mo.	110	111	123	123
St. Paul, Minn.	31	41	47	56
Wichita, Kans.	30	36	43	17
SOUTH ATLANTIC:				
Atlanta, Ga.	55	70	44	64
Baltimore, Md.	117	115	112	124
Charlotte, N.C.	8	9	17	30
Jacksonville, Fla.	13	26	24	27
Miami, Fla.	47	41	46	31
Norfolk, Va.	11	32	14	26
Richmond, Va.	30	35	46	40
Savannah, Ga.	11	16	18	10
St. Petersburg, Fla.	50	55	50	42
Tampa, Fla.	38	34	24	51
Washington, D.C.	84	95	93	68
Wilmington, Del.	26	21	24	19
EAST SOUTH CENTRAL:				
Birmingham, Ala.	34	60	47	35
Chattanooga, Tenn.	15	31	15	15
Knoxville, Tenn.	12	28	21	20
Louisville, Ky.	37	72	66	59
Memphis, Tenn.	53	76	69	55
Mobile, Ala.	22	16	20	29
Montgomery, Ala.	9	21	7	16
Nashville, Tenn.	33	69	58	46
WEST SOUTH CENTRAL:				
Austin, Tex.	17	17	28	15
Baton Rouge, La.	13	16	8	19
Corpus Christi, Tex.	14	10	19	12
Dallas, Tex.	57	61	59	59
El Paso, Tex.	16	15	20	12
Fort Worth, Tex.	49	25	42	38
Houston, Tex.	71	81	79	79
Little Rock, Ark.	26	24	37	27
New Orleans, La.	91	88	65	75
Oklahoma City, Okla.	36	53	37	36
San Antonio, Tex.	54	50	56	65
Shreveport, La.	21	19	36	22
Tulsa, Okla.	29	32	21	43
MOUNTAIN:				
Albuquerque, N. Mex.	15	13	13	10
Colorado Springs, Colo.	11	20	14	21
Denver, Colo.	60	53	61	61
Ogden, Utah.	7	10	12	2
Phoenix, Ariz.	53	38	47	28
Pueblo, Colo.	8	4	10	10
Salt Lake City, Utah.	28	31	26	17
Tucson, Ariz.	21	30	32	21
PACIFIC:				
Berkeley, Calif.	9	11	15	20
Fresno, Calif.	20	33	25	22
Glendale, Calif.	22	34	23	22
Honolulu, Hawaii.	13	11	14	8
Long Beach, Calif.	37	34	40	36
Los Angeles, Calif.	178	324	282	311
Oakland, Calif.	39	25	56	77
Pasadena, Calif.	25	23	17	18
Portland, Oreg.	59	59	67	64
Sacramento, Calif.	26	46	43	34*
San Diego, Calif.	39	39	47	45
San Francisco, Calif.	86	128	120	100
San Jose, Calif.	23	26	22	23
Seattle, Wash.	76	74	57	84
Spokane, Wash.	31	34	39	33
Tacoma, Wash.	22	28	28	28

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	10,834
4(B) Pneumonia-Influenza Deaths, all ages	347
4(C) Total Deaths under 1 Year of Age	748
4(D) Total Deaths, Persons 65 years and over	5,929

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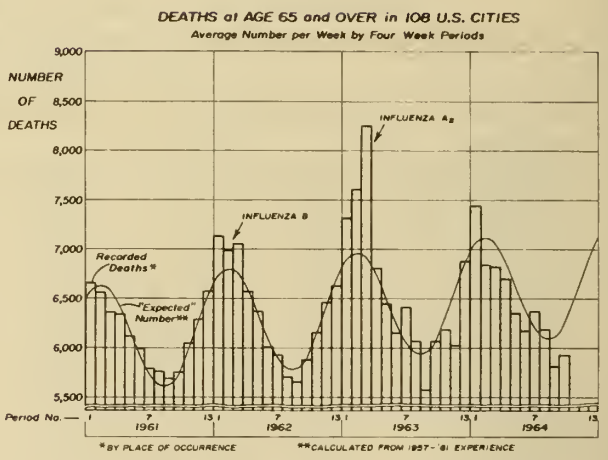
SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U.S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending October 3 was 5,952 as compared with an expected weekly average of 6,256.

	Week Ending				4 Week Total	Weekly Average
	9/12	9/19	9/26	10/3		
Observed	5,607	6,157	6,114	5,929	23,807	5,952
Expected	6,185	6,228	6,278	6,332	25,023	6,256
Excess	−578	−71	−164	−403	−1,216	−304



Malaya, page 49, Insert:

Under smallpox add, 6 months of age and over. Under cholera add, 1 year of age and over. Under yellow fever add, 1 year of age and over.

Nyasaland, page 29, Insert:

Delete Nyasaland and insert **Malawi.**

Cholera vaccination is required for all arrivals from infected areas by air, 1 year of age and over, and from India and Pakistan.

Rwanda, page 30

Under yellow fever add "Travelers leaving Rwanda are required to possess a certificate for entry to receptive areas."

Rhodesia (Southern), page 30, Insert:

Under smallpox add "Certificate required from all travelers arriving from Northern Rhodesia and Malawi."

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASES. SUCH ACCOUNTS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: ... DATA NOT AVAILABLE
— QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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